



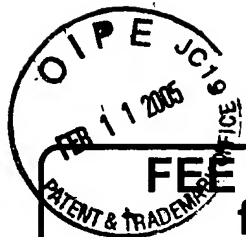
IFW

TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>		Application No.	10/716,571
		Filing Date	November 18, 2003
		First Named Inventor	Chang Hee Hyoung
		Art Unit	2817
		Examiner Name	Seungsook Ham
Total Number of Pages in This Submission	10	Attorney Docket Number	51876P410

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> PTO/SB/08 <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Basic Filing Fee <input type="checkbox"/> Declaration/POA <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <div style="border: 1px solid black; padding: 5px; margin-top: 5px;">return postcard; 2 cited references; copy of search report</div>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Eric S. Hyman, Reg. No. 30,139 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Signature	
Date	2/7/05

CERTIFICATE OF MAILING/TRANSMISSION		
I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.		
Typed or printed name	Kumiko Alexander	
Signature		Date 2/7/05



FEE TRANSMITTAL for FY 2005

Patent fees are subject to annual revision.

Complete if Known

Application Number	10/716,571
Filing Date	November 18, 2003
First Named Inventor	Chang Hee Hyoung
Examiner Name	Seungsook Ham
Art Unit	2817
Attorney Docket No.	51876P410

☒ Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$)

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ None ☐ Other (please identify): _____

☐ Deposit Account Deposit Account Number: 02-2666 Deposit Account Name: Blakely, Sokoloff, Taylor & Zafman LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20. ☒ Credit any overpayments

FEE CALCULATION

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
2053	130	2053	130	Non-English specification	
1251	120	2251	60	Extension for reply within first month	
1252	450	2252	225	Extension for reply within second month	
1253	1,020	2253	510	Extension for reply within third month	
1254	1,590	2254	795	Extension for reply within fourth month	
1255	2,160	2255	1,080	Extension for reply within fifth month	
1401	500	2401	250	Notice of Appeal	
1402	500	2402	250	Filing a brief in support of an appeal	
1403	1,000	2403	500	Request for oral hearing	
1451	1,510	2451	1,510	Petition to institute a public use proceeding	
1460	130	2460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
1809	790	1809	395	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	790	2810	395	For each additional invention to be examined (37 CFR § 1.129(b))	
Other fee (specify) _____					
SUBTOTAL (2)					(\$)

SUBMITTED BY

Name (Print/Type) **Eric S. Hyman**

Registration No.
(Attorney/Agent)

30,139

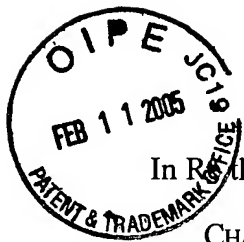
Telephone

(310) 207-3800

Signature

Date

2/7/05



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

CHANG HEE HYOUNG, ET AL.

Application No.: 10/716,571

Filed: November 18, 2003

For: **Switched Coupler Type Digital Phase
Shifter Using Quadrature Generator**

Art Group: 2817

Examiner: Seungsook Ham

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In accordance with the duty of disclosure, enclosed is a copy of IDS Citation Form PTO/SB/08 or PTO-1449, together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed). This IDS and IDS Citation Form are being submitted before the mailing of a first Office Action. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

It is hereby stated that no item of information contained in the Information Disclosure Statement was cited in a patent office in a counterpart application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual associated with the filing or prosecution of the subject application more than three months prior to the filing of the Information Disclosure Statement.

The references were cited in a Search Report dated November 5, 2004 (copy enclosed herewith) in a counterpart Korean application, which was forwarded to Applicant's Representative in a communication dated November 8, 2004.

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Date: _____

2/7/05

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

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Kumiko Alexander

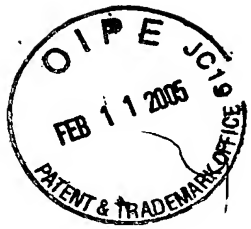
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[illegible]

Based on PTO/SB/08B (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 08/11/2003.
Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



Information Disclosure Statement

U.S. Patent Application Serial No. 10/716,571

Your Ref. No.: 051876.P410

Our Ref. No.: P02EC041/US/jy

Issued Date by the Korean Intellectual Property Office: November 05, 2004

Received Date from the Korean Intellectual Property Office: November 08, 2005

Reference No.: (1) JP Laid Open No. 1991-291008

(2) KR Laid Open No. 1999-0066804



This application was preliminarily rejected pursuant to Article 63 of the Korean Patent Law based on the following reason. Should there be any opinion against this action, please file a written argument by January 5, 2005. (You can apply for 1-month extension per each case, and we do not notify you of the confirmation for such term extension.)

[REASON]

This invention described in claims 1 to 6 can be easily invented by those skilled in the art as pointed out below. Accordingly, the above-identified patent application cannot be registered pursuant to Article 29, Paragraph 2 of the Korean Patent Law.

[BELOW]

Claims 1 to 6 of the present invention are directed to a phase shifter. In particular, it is directed to a switched coupler-type digital phase shifter using a quadrature generator that can realize multi-bit phase shift with one phase shifter.

However, Japanese Patent Laid-Open No. 1991-291008 (Reference 1), which is published on December 20, 1991, discloses a phase shifter having a 180° coupler and an SPDT switch, which is similar to the phase shifter of the present invention. Also, Korean Patent Laid-Open No. 1999-0066804 (Reference 2), which is published on August 16, 1999, discloses a quadrature circulating apparatus for delaying a signal by 0°, 90°, 180°, and 270° with respect to a predetermined signal. Accordingly, the invention is considered to be easily invented by those skilled in the art from a combination of the cited References 1 and 2.

[Attachment] JP Laid-Open No. 1991-291008
(Published on December 20, 1991)
KR Laid-Open No. 1999-0066804
(Published on August 16, 1999)